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Bilbao, Spain

Smartive to present CloudDiagnosis wind turbine optimisation tool at EWEA workshop

KIC InnoEnergy backed startup's powerful fault predictor could save the Spanish wind industry €15M annually

Spanish renewables startup Smartive will present the results of several trials of its fault predicting software, CloudDiagnosis, at the EWEA Analysis of Operating Wind Farms workshop at the Bilbao Exhibition Centre, 14-15 April.

The ground-breaking cloud-based software system is designed to collate data from operational wind farms to provide operators with an estimation of the “health” or operating condition of their turbines. It then uses this data to predict up to 21 days in advance, if vital components are likely to fail or require maintenance.

Smartive is supported by KIC InnoEnergy, the innovation engine for sustainable energy across Europe, having joined their Highway accelerator programme last year. The funding, guidance and other support has helped them develop their concept into a commercially viable product, which could drastically improve the operational availability of onshore and offshore wind farms around the world.

Smartive's CEO, Jordi Cusidó explained:

“Each year, the global wind industry loses billions of euros in revenues due to turbine failures. One of the best ways for wind farm operators, maintenance companies, and investors to protect their profitability is to improve maintenance and operation processes. If you can reduce unexpected outages and plan repairs or corrective maintenance more effectively, it means you can increase the wind farm's availability – and of course better availability means better profitability.

“CloudDiagnosis can help by monitoring the effective “health” of operational wind turbines and by predicting component failure. This not only gives the operator a real-time understanding of how their wind farms are operating, but also visibility, up to 21 days in advance, on whether they're going to need to carry out repairs. We think a 10% improvement in productivity is achievable through such visibility. This would mean an annual increase in turnover for the industry of 15M€ in Spain, 70M€ across the EU and 200M€ worldwide.



“We’ve come a long way since joining the KIC InnoEnergy Highway programme and are grateful for the backing and support we’ve received from them. They really understand our business, have a superb network of industrial partners and know what it takes to help get ideas like ours to market.”

Josep-Miquel Torregrosa, KIC InnoEnergy Iberia Business Creation Officer, said:

“Smartive’s CloudDiagnosis has the potential to become a game-changing solution for the wind industry. Detecting anomalous operation and effectively showing if a wind farm is going wrong is half the battle. Being able to programme in your maintenance ahead of time stands to save the industry millions in avoided down-time. This is exactly the kind of innovative solution we aim to help through our Highway programme – it’s a prime example of why we do what we do.”

-ENDS-

Additional background:

The key highlights of the Smartive Platform that will be presented at the workshop include:

- Wind turbines change their behaviour before failures. This allows the software to estimate the “health” of turbines and predict failures.
- The main components which are typically analysed include: Yaw, Pitch, Gear Box, Main Bearing and Generator.
- Predictive models can be developed from as little as six months to four years of SCADA (Supervisory Control And Data Acquisition) data.
- The software is able to provide health estimation with an accuracy of up to 95% and failure prediction with an accuracy of up to 90% for a range of turbine manufacturers.

See also - EWEA

<http://www.ewea.org/>

<http://www.ewea.org/events/workshops/analysis-of-operating-wind-farms-2016/>

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About KIC InnoEnergy (www.kic-innoenergy.com)

KIC InnoEnergy is the innovation engine for sustainable energy across Europe. The challenge is big but our goal is simple: to achieve a sustainable energy future for Europe. Innovation is the answer. New ideas, products and solutions that make a real difference, new businesses and new people to deliver them to market.

At KIC InnoEnergy we support and invest in innovation at every stage of the journey – from classroom to customers. With our network of partners we build connections across Europe, bringing together inventors and industry, entrepreneurs and markets, graduates and employers, researchers and businesses.

We work in three essential areas of the innovation mix:

- Education to help create an informed and ambitious workforce that understands what sustainability demands and industry needs – for the future of the industry.
- Innovation Projects to bring together ideas, inventors and industry in collaboration to enable commercially viable products and services that deliver real results.
- Business Creation Services to help entrepreneurs and start-ups who are creating sustainable businesses to grow rapidly to contribute to the global energy ecosystem.

Together, our work creates and connects the building blocks for the sustainable energy industry that Europe needs.